UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/600,891	06/20/2003 Glynn Alan Spangenberg		030266	5908	
	7590 02/12/200 INCORPORATED	8	EXAMINER		
5775 MOREHO	OUSE DR.		AKINTOLA, OLABODE		
SAN DIEGO, C	A 92121		ART UNIT	PAPER NUMBER	
			3691		
			NOTIFICATION DATE	DELIVERY MODE	
			02/12/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

us-docketing@qualcomm.com kascanla@qualcomm.com nanm@qualcomm.com

Office Action Summary		Applica	tion No.	Applicant(s)	Applicant(s)	
		10/600,	891	SPANGENBERG ET AL.		
		Examine	er	Art Unit		
		OLABOI	DE AKINTOLA	3691		
Period fo	- The MAILING DATE of this commur r Reply	ication appears on t	he cover sheet with t	he correspondence a	ddress	
A SHO WHIC - Exten after t - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE N sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comi period for reply is specified above, the maximum si e to reply within the set or extended period for reply sply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF T s of 37 CFR 1.136(a). In no e munication. catutory period will apply and w will, by statute, cause the ap	THIS COMMUNICAT event, however, may a reply will expire SIX (6) MONTHS oplication to become ABAND	FION. be timely filed from the mailing date of this of the point of	·	
Status						
2a)⊠ 3)□	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the pract	2b)⊡ This action is for allowance excep	non-final. ot for formal matters	·	e merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□	Claim(s) <u>1-32</u> is/are pending in the ala) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1-32</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction Papers	re withdrawn from c				
10) -	The specification is objected to by the Grawing(s) filed on is/are Applicant may not request that any objected to the cather or declaration is objected to be cathered to be ca	: a) ☐ accepted or bection to the drawing(s) of the correction is requ	be held in abeyance. ired if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 C	, ,	
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice (3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	Paper No(s)/Ma	mary (PTO-413) ail Date nal Patent Application		

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chene et al (US 6587768) in view of Carr (US 6968295).

Re claims 1-3, 5, 7-16, 18, 20-25, 27 and 29-32: Chene teaches a method, an apparatus and a machine readable executable instructions for measuring a benefit of a business improvement comprising operations of: automatically receiving, from a vehicle using wireless

Art Unit: 3691

communications, actual performance information detected by at least one vehicle sensor and provided by a vehicle operator (abstract, Figs, col. 1, lines 61-65, col. 4, lines 41-44); storing the actual performance information in a storage device (col. 2, lines 14-16); retrieving the actual performance information (co. 3, lines 11-15). Chene does not explicitly teach providing business improvement to a service business with vehicle, receiving actual performance over a period of time and calculating the benefit of implementing the business improvement by comparing the actual performance information to estimated performance information determined prior to an introduction of the business improvement. Carr teaches providing business improvement to a service business with vehicle, receiving actual performance over a period of time and calculating the benefit of implementing the business improvement by comparing the actual performance information to estimated performance information determined prior to an introduction of the business improvement (summary, col. 32, line 47 thru col. 33, line 7, col. 35, lines 42-45). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Chen to include this feature. One would have been motivated to do this in order to estimate the ROI after the adjustment on a monthly basis for a predetermined period of time.

Re claim 4, 6, 17, 19, 26 and 28: Chene does not explicitly teach NPV and payback period.

Official notice is taken that these two parameters are notoriously old and well known in the art of financial analysis. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Chene and Carr to include NPV and payback period. One would have been motivated to do this as part of traditional financial calculation.

Response to Arguments

Applicant's arguments filed 12/18/2007 have been fully considered but they are not persuasive.

In response to applicant's argument that the Chene is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Chene explicitly teaches vehicle maintenance system by capturing vehicle data using wireless means.

Applicant asserts that the present invention compares the actual measured information with *predicted* performance information. Contrary to applicant's assertion that the estimated performance is a predicted performance prior to introduction of the improvement, the originally filed disclosure does not have support for this assertion. In fact, nowhere in the specification is any performance predicted. Section 0012 of the specification reads thus:

[0012] FIG. 1 illustrates a satellite-based wireless communication system widely used in the trucking industry for allowing two-way communications between vehicles and remotely-located entities, such as a fleet management center, family members, governmental authorities, and so on. Although the ideas presented herein for determining benefits to business improvements are described herein with respect to a satellite-based communication system, it should be understood that any other wireless communication system could be used in the alternative, including cellular and PCS terrestrial communications, microwave communications, 802.11 systems, PCMCIA cards, local

infrared or radio frequency systems, and so on. It should also be understood that measuring the benefits of a business improvement as described herein may comprise measuring such things as increased revenues, decreased costs, reduction of overtime hours worked, reduction in the number of employees, an increase in average fuel efficiency, and so on. These benefits may further be used to calculate other benefits, such as an actual return-on-investment of an improvement, an actual net present value of an improvement, an actual total cost of ownership of an improvement, an actual internal rate of return, an actual payback time period, and/or other benefits. *Generally, benefits are measured by comparing actual performance information of a business after a business improvement has been introduced, to estimated performance information prior to introduction of the business improvement.*

Page 5

From the specification, it is clear that actual performance is the performance after the improvement while the estimated performance is the performance *before* the improvement.

Carr explicitly teaches the aforementioned limitation at col. 32, lines 53-67 (i.e., "One embodiment of the description of the adjustments made to the initial settings includes a determination of the energy-usage and costs <u>after</u> the adjustments, a model for the energy usage of the systems at the facility 10 after the adjustments (i.e., tune-up), and a comparison of the baseline and after tune-up energy usage by the facility 10").

Applicant also argues that Carr does not discuss using actual measured data over a period of time. Examiner respectfully disagrees. Carr explicitly teaches this limitation at col. 33, line 4 and col. 35, lines 42-45.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Summers (US 6408263) teaches traditional financial calculations (NPV, payback period and ROI) (col. 29, lines 63-67)

Tripathi teaches monitoring of vehicle health based on historical information (see figures)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olabode Akintola whose telephone number is 571-272-3629.

The examiner can normally be reached on M-F 8:30AM -5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Kalinowski can be reached on 571-272-6771. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/600,891

Page 7

Art Unit: 3691

OA

/Hani M. Kazimi/ Primary Examiner, Art Unit 3691